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☐ 1: Biosci Biotechnol Biochem. 2002 May;66(5):1009-14.

Related Articles, Link:

Rutin-enhanced antibacterial activities of flavonoids against *Bacillus cereus* and *Salmonella enteritidis*.

Arima H, Ashida H, Danno G.

Division of Life Science, Graduate School of Science and Technology, Kobe University, Japan.

The antibacterial activities of flavonoids were found by the paper disk method to be enhanced by combining or mixing them. The combinations of quercetin and quercitrin, quercetin and morin, and quercetin and rutin were much more active than either flavonoid alone. Although rutin did not show activity in itself, the antibacterial activities of quercetin and morin were enhanced in the presence of rutin. The antibacterial activities of flavonoids, in combination with morin and rutin, were evaluated, based on the minimum inhibition concentration (MIC) in a liquid culture, by using *Salmonella enteritidis* and *Bacillus cereus* as the test bacteria. The activities of galangin, kaempferol, myricetin and fisetin were each enhanced in the presence of rutin when *S. enteritidis* was used as the test bacterium. The MIC value for kaempferol was markedly decreased by the addition of rutin. Morin inhibited DNA synthesis, and this effect was promoted by rutin at a concentration of 25 microg/ml.

PMID: 12092809 [PubMed - indexed for MEDLINE]

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